Applicant: Vincent P. Stanto, T. Attempt's Docket No.: 11926-112001

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(b) carrying out an amplification reaction, whereby the first nucleic acid molecule is amplified to a greater extent than the second nucleic acid molecule.

- 1 \(\) (reiterated) The method of claim 10, wherein the DNA is single-stranded DNA.
- 12. (reiterated) The method of claim 10, wherein the DNA is double-stranded DNA.
- 13. (reiterated) The method of claim 10 further comprising separately carrying out steps
  (a) and (b) for each of a plurality of polymorphic sites.
- 14. (reiterated) The method of claim 10 wherein the sample of DNA comprises mammalian DNA.
- 15. (reiterated) The method of claim 14 wherein the sample of DNA comprises human DNA.
- 16. (reiterated) A method for haplotyping a first nucleic acid molecule having a first nucleotide present at a polymorphic site present in a sample of DNA comprising at least the first nucleic acid molecule and a second nucleic acid molecule having a second, different nucleotide present at the polymorphic site, comprising:
- (a) contacting a sample of DNA comprising at least the first nucleic acid molecule with two amplification primers that hybridize to both the first nucleic acid molecule and the second nucleic acid molecule at locations which flank the polymorphic site, one of the two primers including a 5' portion which, when incorporated into an amplification product, will upon further amplification yield products that form a stable stem-loop structure, the stem of which is perfectly matched and includes the polymorphic site only when the second nucleotide is present at the polymorphic site, but not when the first nucleotide is present at the polymorphic site;
- (b) carrying out an amplification reaction, whereby the first nucleic acid molecule is amplified to a greater extent than the second nucleic acid molecule to create an amplified DNA sample; and